

CLAIMS

1. A device for feeding bags (1) having a spout (2) to a star-type reel stand, a guide rail (4) co-operating with the spouts (2) being provided for moveably holding the bags (1) and which has a removal end (8),

characterised in that

an overslide (7) is provided which grips the bags (1) on the spout (2) in the region of the removal end (8) of the guide rail (4), and a drive (9) which moves the overslide (7) between a removal position (10) on the removal end (8) of the guide rail (4) and a feed position (11) on the circular path of the holding elements (12) of the star-type reel stand (3).

2. The device according to Claim 1,

characterised in that

the overslide (7) has an active mechanical gripping mechanism.

3. The device according to Claim 2,

characterised in that

the gripping mechanism forms a gap (17) which can be varied in size for holding the spout (2).

4. The device according to Claim 3,

characterised in that

the overslide (7) has an upper part (14) with a downwardly pointing end portion (16) and a lower part moveably mounted relative to the upper part (14), the gap (17) being formed between the downwardly pointing end portion (16) and the lower part (15).

5. The device according to Claim 4,

characterised in that

the lower part (15) is mounted on a rail which is fixed relative to the upper part (14).

6. The device according to any of Claims 1 to 5,

characterised in that

the overslide (7) is disposed transversely to the guide rail (4).

7. The device according to any of Claims 1 to 6,

characterised in that

the overslide (7) is spaced apart from the removal end (8) of the guide rail (4) by a distance smaller than a spout width.

8. The device according to any of Claims 1 to 6,

characterised in that

a pivotable locking element is provided on the removal end (8) of the guide rail (4).

9. The device according to any of Claims 4 to 8,

characterised in that

the drive (9) is connected to the lower part (15) of the overslide (7).

10. The device according to any of Claims 3 to 9,
characterised in that

the gap (17) is formed such that the spout (2) can be gripped in an upper region, in particular in the region of the thread (23), and a lower region for holding in the corresponding holding element (12) of the star-type reel stand (3) remains free.

11. The device according to any of Claims 1 to 10,
characterised in that

the drive (9) is mechanically coupled to the drive or the central axis of the star-type reel stand (3).

12. The device according to any of Claims 1 to 11,
characterised in that

the drive (9) is designed such that a continuous rotation movement of the central axis of the star-type reel stand (3) is transformed into a cyclical reciprocating movement of the overslide (7), in particular of the lower part (15).

13. The device according to Claim 12,
characterised in that

the drive (9) is designed such that there is a pause between the reciprocating movement.

14. The device according to Claim 12 or 13,

characterised in that

the drive (9) is designed such that The device achieves between 220 and 280 cycles per minute, and in particular 250 cycles per minute.

15. The device according to any of Claims 11 to 14,
characterised in that
a double cam driven by the drive or the central axis of the star-type reel stand (3) is provided which co-operates with a rocker (20) connected to the overslide (7), in particular the lower part (15).
16. The device according to any of Claims 1 to 15,
characterised in that
a cyclical linear drive is provided which moves the bags (1) in the guide rail (4) towards the overslide (7).
17. The device according to Claim 16,
characterised in that
the cyclical linear drive comprises a push-in finger (6) which applies pressure in the direction of the overslide (7) to bags (1) located in the guide rail (4).
18. The device according to any of Claims 1 to 17,
characterised in that
the star-type reel stand (3) has several inner carrousels (13).